

METHOD AND SYSTEM FOR TRANSMITTING INFORMATION  
IN AN OPTICAL COMMUNICATION SYSTEM USING  
DISTRIBUTED AMPLIFICATION

ABSTRACT OF THE DISCLOSURE

A method and system for transmitting information in an optical communication system includes modulating a non-intensity characteristic of an optical carrier signal with a data signal to generate an optical information  
5 signal. The optical information signal is transmitted over an optical link. The optical information signal is amplified over a length of the optical link with a co-launched amplification signal traveling in the optical link in a same direction as the optical information  
10 signal.